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1. ~~14.2-FH3: Modular Building Block Approach to Construction Assembly in Place Mini-Roundabouts~~

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Mini-roundabout is a single-lane roundabout with a traversable central island and splitter islands. The inscribed circular diameter of mini-roundabout ranges from 50 ft to 90 ft. This intersection design is suitable for junctions of 2-lane and/or 3-lane high volume collector roads. A well designed mini-roundabout can deliver more than twice the traffic handling capacity when compared to intersecti ...

SBIR Department of Transportation

2. 14.2-FM1: Driver Fatigue and Distraction Monitoring and Warning System

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Driver fatigue and driver distraction are recognized as a continuing safety issue for commercial drivers. Driver fatigue is a major cause of CMV crashes, but fatigue causes are not well understood. Distraction-affected crashes were reported in ten percent of fatal crashes, 18 percent of injury crashes, and 16 percent of all motor vehicle traffic crashes in 2012 according to the Nationa ...

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3. 14.2-FT1 : Technology to Improve upon APC Data Counting that will Provide Better Correlation to Service Plan

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Transit agencies traditionally face major issues in rider system utilization and travel patterns. First, it has been a challenge to accurately count the number of riders that board and alight along stops or stations on a transit route. In the vast majority of transit agencies, this has been traditionally accomplished through "ride checking;" a manual process of counting riders ...

SBIR Department of Transportation

4. 14.2-NH1 : Device to Address the Competing Needs of Ensuring Lockability of Seat Belts and Mitigating Entrapment Risk in Mis-Use Conditions

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

The Federal Motor Vehicle Safety Standard (FMVSS) No. 208, "Occupant crash protection," requires that passenger seating positions of passenger cars and some other passenger vehicles have a seat belt assembly whose lap belt portion is lockable so that the seat belt assembly can be used to tightly secure a child restraint system. FMVSS No. 208 further specifies that the means to lo ...

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5. [14.2-OS1: Using alternative energy to reduce greenhouse gas production in the transportation sector](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

The surface transportation sector is one of the largest contributors to the production of greenhouse gases. The USDOT's Zero Emission Transportation Initiative is looking to push the transportation sector greenhouse gas production to zero by 2050. Alternative energy sources used to power vehicles have the potential to significantly reduce vehicular production of greenhouse gases.& ...

SBIR Department of Transportation

6. [14.2-PH1: Develop and demonstrate new non-destructive evaluation methods to quantify remaining strength of line pipe steel and or pipeline fittings](#)

Release Date: 07-14-2014 Open Date: 07-14-2014 Due Date: 09-15-2014 Close Date: 09-15-2014

Pipeline and Hazardous Materials Safety Administration The energy transportation network of the U.S. consists of over 2.6million miles of pipelines. That's enough to circle the earth about 100 times. These pipelines are operated by approximately 3,000 companies, large and small. U.S. operators transport almost two-thirds of the Nation's energy. According to the U.S. Energy Informati ...

SBIR Department of Transportation

7. [RFA-AT-15-003: HHS SBIR RFA-AT-15-003](#)

Release Date: 06-17-2014 Open Date: 08-10-2014 Due Date: 09-10-2014 Close Date: 09-10-2014

Background Natural products are essential sources of medicines. The World Health Organization estimates that ~80% of the world's population relies on traditional medicines made from natural products. The modern pharmaceutical industry is also dependent on plant-based medicines, with as much as 50% of all drugs based on natural products or derived from a natural product origin. Clearl ...

SBIR Department of Health and Human Services

8. [RFA-AT-15-002: HHS STTR RFA-AT-15-002](#)

Release Date: 06-17-2014 Open Date: 08-10-2014 Due Date: 09-10-2014 Close Date: 09-10-2014

Background Natural products are essential sources of medicines. The World Health Organization estimates that ~80% of the world's population relies on traditional medicines made from natural products. The modern pharmaceutical industry is also dependent on plant-based medicines, with as much as 50% of all drugs based on natural products or derived from a natural product origin. Clearl ...

STTR Department of Health and Human Services

9. [RFA-HD-15-012: HHS SBIR RFA-HD-15-012](#)

Release Date: 06-25-2014Open Date: 07-29-2014Due Date: 08-29-2014Close Date:
08-29-2014

The purpose of this FOA is to support projects that demonstrate the presence of protein biomarkers that are related to brain structure or neurological function in patients in the chronic stages of traumatic brain injury (CBI). The research will provide anatomical evidence for changes in neurological, cognitive or emotional status seen in the years that follow brain trauma, and may serve as s ...

SBIR Department of Health and Human Services

10. [RFA-ES-14-005: HHS SBIR RFA-ES-14-005](#)

Release Date: 05-09-2014Open Date: 07-15-2014Due Date: 08-15-2014Close Date:
08-15-2014

Traditional exposure assessment has relied on the use of questionnaires, ambient monitoring of pollutants and limited personal exposure assessments for individual analytes in biomonitoring efforts. These approaches have identified many potential contributing factors but are known to suffer from limitations in misclassification due to spatial and temporal distribution of analytes, imprecision of th ...

SBIR Department of Health and Human Services

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